

REMARKS/ARGUMENTS

This is a full and timely response to the Office action of March 20, 2007. Claims 1, 2, 9, 10, and 21 have been amended, and new claims 22-24 have been introduced. No new material has been added. Reconsideration of claims 1-21, and consideration of claims
5 22-24 is respectfully requested.

1. Background

Claims 1-21 have been rejected for reasons of record. Claim 10 would be allowable if rewritten appropriately in independent form.

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2. Response

Without disclaimer of any kind, the immediate limitations of allowed claim 10, specifically “wherein there is a delay from a trailing edge of a last pulse of the write time waveform to a position the write time waveform switches back to an erase power
15 state”, have been added to claim 1.

It is further noted that the Asada et al. reference is directed towards a waveform that exclusively utilizes a 1T strategy (Col.17, lines 35-36). This 1T strategy retains the problems mentioned in Paragraph [0007] of the current application including “the write time waveform is not long enough to allow the chemicals on the surface of the optical
20 storage medium to properly solidify to form the pit section without distortion”.

On the other hand, “In addition, the present invention method utilizes the 2T strategy and defines the write strategy parameters in great detail, so that the solidifying time shortage problem of the 1T strategy is solved and there is higher degree of freedom to adjust the write strategy parameters to adequately eliminate
25 jitters of the current pit sections due to internal inaccuracies of the optical storage medium. “ (Present Paragraph [0037]).

This difference in functionality additionally distinguishes the present claims over the reference. Therefore, for at least these reasons the applicant respectfully requests reconsideration of amended claim 1.

30 As the allowability of claims 2-20 ultimately depend upon the allowability of claim 1,

claims 2-20 also are believed to be allowable. Therefore, reconsideration of claims 2-20 is also respectfully requested.

5 Additionally, the immediate limitations concerning the claimed write strategy parameters comprising sets of repeating pulse parameters as found in original claim 6 have been merged into independent claim 21. New claims 22-24 closely correspond to the balance of claims 6 ~8, wherein claims 7 and 8 depend on claim 6.

10 In this Office action, the Examiner has rejected the original claim 6 citing Asada et al. in view of Shoji et al., citing Col.5, lines 14-22, Fig.3, and Col.5, lines 19-28.

15 Col.5, lines 28-33 of Shoji say “a pattern signal containing a pattern of consecutive mark parts with a specific length of PT and space parts with a specific length of QT where T is a reference period, P is a positive integer from n1 to n2, and Q is a positive integer from n1 to n2” is generated. Col.11, lines 34-39 of Shoji, and referring to Fig.3, say “The pulses between the first pulse 301 and last pulse 304 are referred to as multiple pulses 302 and have a constant period.”

20 However, the applicant is unable to locate teachings or suggestion in the reference of storing a plurality of write strategy parameters that include “a plurality of sets of repeating pulse parameters, each set of repeating pulse parameters having a plurality of repeating pulse parameters, the repeating pulse parameters representing pulse lengths of all but first and last pulses” as is claimed. Shoji appears to teach a single parameter of PT, which is constant, and reusable to generate a plurality of
25 pulses in the resulting waveform. P may be changeable from n1 to n2 depending upon the situation, but within a single waveform, P is constant which one skilled in the art would store as a single, reusable PT parameter. There is no teaching to the contrary in the reference.

30 On the other hand, present claim 21 (and claim 6) include limitations of sets of

repeating pulse parameters representing pulse lengths of all but first and last pulses.
The claimed set has the advantage of permitting flexibility in lengths of each of the
repeating pulses (paragraph [0028]) according to design considerations to further
reduce "jitters of the current pit sections due to internal inaccuracies of the optical
5 storage medium." (paragraph [0037]).

Therefore, for at least these reasons, the applicant respectfully asserts that known
references alone or in combination fail to teach all of the limitations of amended claim
21 and respectfully requests reconsideration of claim 21 and new claims 22-24
10 dependent thereon.

Sincerely yours,



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D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)